Synthetic template Sequence 15mer2-5/ Synthetic library

GenCore version 5.1.3 (c) 1993 - 2002 Compugen Ltd.

OM protein protein search, using sw model

Run on: November 27, 2002, 05:38:32; Search time 8.28185 Seconds (without alignments) 241.342 Million cell updates/sec

Title: Perfect score: US-09-893-615-2 91

Scoring table: Sequence: BLOSUM62 WHWRHRIPLQLAAGR 15

Gapop 10.0 , Gapext 0.5

Searched:

908470 seqs,

133250620 residues

Total number of hits satisfying chosen parameters:

Minimum Maximum 80 80 seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database 1: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA1980.DAT: *
2: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA1981.DAT: *
3: SIDS2/gcgdata/geneseq/geneseqp-embl/AA1981.DAT: *
3: SIDS2/gcgdata/geneseq/geneseqp-embl/AA1983.DAT: *
4: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA1983.DAT: *
5: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA1984.DAT: *
5: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA1985.DAT: *
6: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA1985.DAT: *
7: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA1989.DAT: *
7: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA1999.DAT: *
7: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA1991.DAT: *
7: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA1994.DAT: *
7: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA1995.DAT: *
7: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA1999.DAT: *
7: //SIDS2/gcgdata/geneseq/geneseqp-embl/AA2000.DAT: * A_Geneseq_101002:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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	91	91	91	91	91	91	91	91	91	91	Score	
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	19	19	19	19	19	15	15	15	15	15	Query Match Length DB	
	20	20	20	20	20	23	21	20	19	17	DB	
	AAW94709	AAW94705	AAW94721	AAW94710	AAW94729	АВЫ73358	AAB17987	AAW94702	AAW71334	AAW12276	ID	SOMMANIES
	Sequence 15mer2-7/	Sequence 15mer2-1/	Sequence 15mer2-19	Sequence 15mer2-8/	Seyuence 15mer 2nd	Exemplary pharmaco	Beta-2GPT Ab bindi	Lipoteichoic acid	A glycolipid sugar	Synthetic library	Description	

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P0239 M9338 M5667 M2937 B7144	W0337 W0337 W0629 Y8459 Y8459 W5164 R4875 R4875 R4875	AAWI 2277 AAW94708 AAW12277 AAW94708 AAW03372 AAW03373 AAW03373 AAW03373 AAW033778 AAW033778 AAW033778 AAW033778 AAW0337778 AAW037778 AAW13780

Human AFP protein
Human mast cell re
Zea mays protein f
Peptide #4 which b
Peptide #5 which b

Amino acid sequenn Rat GPCR polypepti Human thoracic aor Human thoracic aor

Human foetal prote

RTA-like G protein Novel human diagno

Human brain expres
Human bone marrow
Peptide #438 encod
Peptide #447 encod
Peptide #427 encod

Human peptide enco

Peptide #7 which b Peptide #9 which b Human peptide #429

Protein #422 encod

Peptide #6 which b Peptide #8 which b Novel human diagno

ALIGNMENTS

Novel human diagno Human ORFX protein Human polypeptide, Human brain expres Peptide #3414 enco Propionibacterium

Drosophila, melanog

RESULT 1 AAW12276 ID AAW1

AAW12276 standard; peptide; 15 À

AAW12276;

15-APR-1997 (first entry)

Synthetic library peptide #1 which binds anti-T. goodii P30 antibody.

Toxoplasma gondii; surface protein; antibody; screening; peptide library; diagnostic assay; immunisation; phage; fusion protein; envelop.

Synthetic.

EP724016-A1. 31-JUL-1996.

29-JAN-1996; 96EP-0420030

30-JAN-1995; 95FR-0001297

(JOLI/) JOLIVET-REYNAUD C. (INMR) BIO MERIEUX.

Jolivet-Reynaud C;

WPI; 1996-343531/35.

New polypeptide reactive with anti-P30 antibodies against Toxoplasma gondii - useful for diagnosis or immunisation, also new nucleic acid, vectors and transformed cells

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RESULT 2
AAW71334
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AAW71332-36 represent glycolipid sugar chain replica peptidos. They react specifically with an antibody against glycolipid sugar chains and inhibit adhesion and metastasis of cancer cells to a target cell The peptides can be used to prevent cancer metastasis.
                                                                                                                                                       Claim 8; Page 3; 7pp; Japanese
                                                                                                                                                                                                                        metastasis
                                                                                                                                                                                                                                              New peptide which reacts specifically with antibody against glyco-lipid sugar chains - useful for inhibition of cancer
                                                                                                                                                                                                                                                                                                                                            WPI; 1998-537488/46
                                                                                                                                                                                                                                                                                                                                                                                                      (IMMO ) IMMUNO JAPAN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-FEB-1997;
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Pred. No. 1.5e-08;
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ence

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WHWRHRIPLQLAAGR

15

Matches

Conservative

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1 WHWRHRIPLQLAAGR 15

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RESULT 3
AAW94702
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Best Local Similarity
Matches 15; Conserv
                              Query Match
                                                                                      comprising at least part of a human immunoglobulin constant region and at least part of a non-human immunoglobulin variable region having specificity to lipoteichoic acid of gram positive bacteria. The antibodies bind to whole bacteria and enhance phagocytosis and killing of the bacteria and enhance protection from lethal infection. The antibodies or peptides (encoded by a DNA of the variable region of anti-lipoteichoic acid antibody or characterised by amino acids corresponding to one or more of the complementarity determining regions (CDRS) of the variable region of the antibody) can be used for treating or preventing infections caused by gram positive bacteria. They can also be used for the diagnosis of gram positive bacterial infections. The present sequence represents a specifically claimed lipoteichoic acid epitope peptide mimic that can be bound by the antibody of the invention (Mab 96-110).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Monoclonal antibody; MAb; lipoteichoic acid; gram positive; bact immunoglobulin; phagocytosis; infection; epitope; peptide mimic; Mab 96-110.
                                                                                                                                                                                                                                                                                                  The invention relates to a monoclonal antibody (MAb) to lipoteichoic acid of gram positive bacteria, where the MAb is a chimeric immunoglobulin
                                                                                                                                                                                                                                                                                                                                                                               New antibodies to lipoteichoic acid of gram positive bacteria - us to develop products for the diagnosis, prevention and treatment of infections caused by gram positive bacteria
                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                   Claim 16; Page 120; 150pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Staphylococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lipoteichoic acid epitope
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16-JUN-1997;
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 15; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GW,
                                                             15 AA;
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             100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   peptide mimic for Mab 96-110
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
Score 91; DE
Pred. No. 1.5
0; Mismatches
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Pred. No. 1.5e-08;
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..5e-08;
≥s 0;
                               DB
                                 20;
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RESULT 4
AAB17987
ID AAB1
XX AAB1
AC AAB1
XX Beta
XX Beta
XX Modi
KW Modi
KW Immu
KW MMP;
KW Cytc
KW Cytc
KW asth
XX
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                                                                                                                                                                                                                                                                                                                                         (C) (x)a-Fl-(x2)b, where: Fl = an Fc domain; X1 and X2 = are each independently selected from -(L1)c-Pl -(L2)d-P2 -(L3)e-P3, or -(L1)c-Pl -(L2)d-P2 -(L3)e-P3 -(L4)f-P4 -(L1)c-Pl -(L3)e-P3 -(L4)f-P4 -(L3)e-P3 -(L4)f-P3 -(L4)f-P
                                                                                                            Matches
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Best Local
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                                                                                                                                                                                                                                                            A binding, complement fixation, and possibly placental transfer. AAA6944 to AAA69526 and AAB16955 to AAB18003 represent nucleotide and amino acid sequences used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes composition of matter (I) comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   autoimmune diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pharmacologically active peptides, useful for treating cancer and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel composition of matter comprising an Fc domain and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2000-350702/30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Feige U, Liu C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (AMGE-) AMGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23-OCT-1998;
22-OCT-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            asthma; thrombosis; pharmaceutical.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cytotoxic T cell lymphocyte antigen 4; tumour necrosis factor vascular endothelial growth factor; matrix metalloproteinase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    autoimmune disease; cytostatic; antiasthmatic; thrombolytic; VEGF; immunosuppressive; EPO; TPO; CTLA4; mimetic; IL-1; TNF; antagonist; MMP; inhibitor; erythropoietin; thrombopoietin; interleukin 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified peptide; therapeutic agent; fusion; Fc domain; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Beta-2GPI Ab binding peptide sequence SEQ ID NO:1099
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                                                                                                                                                                                                               Sequence
                                                                                                                                    Local Similarity
                                                    WHWRHRIPLQLAAGR 15
WHWRHRIPLQLAAGR 15
                                                                                                            15;
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                                                                                                            Conservative
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99US-0428082.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99WO-US25044.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cheetham J,
                                                                                                                                    100.0%;
                                                                                                            0
                                                                                                                                       Score 91; DB 21;
Pred. No. 1.5e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Boone TC;
                                                                                                              Mismatches
                                                                                                                                                             DB 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            thrombolytic; VEGF;
                                                                                                                                                                Length 15;
                                                                                                              Indels
                                                                                                                 0;
                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                 AAA69443
                                                                                                                 0;
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RESULT 5

á

1 WHWRHRIPLQLAAGR 15

Query Match Best Local Matches 1

Similarity

100.0%; 100.0%; htive 0;

Score 91; DB 23; Pred. No. 1.5e-08;

Length 15;

0

Gaps

0

Mismatches

Conservative

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05-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABB73358 standard; Peptide; 15 A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TNF-alpha inhibitor; interleukin 1 antagonist; IF TPO mimetic peptide; EPO mimetic peptide; ERP: VEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Modified peptide; mimetic; Fc domain; fusion; in EPO; erythropoletin; TPO; tumour necrosis factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Exemplary
                                                                                                                                                                                                                                                                                                                                                                                                                              multimers. (I) can have antiinflammatory, antitumour, immunosuppressive, cytostatic, antirheumatic, antiarthritic, antidiahetic, ophthalmological, antianaemic, anorectic, antiinfertility, haemostatic, dermatological and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention describes a vehicle-peptide molecule (I) or its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 39; Page 62; 176pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             inflammatory and autoimmune diseases, cancer, rheumatoid arthridiabetic retinopathy, obesity, sleep disorders and infertility
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-130313/17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-MAY-2000; 2000US-0563286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02-MAY-2001; 2001WO-US14310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 08-NOV-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fanconi's syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  thrombocytopaenia; metastatic tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              neuroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  antianaemic; anorectic; antiinfertility; haemostatic; de
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cytostatic; antirheumatic; antiarthritic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MMP inhibitor; antiinflammatory; antitumour;
                                                         compounds are useful for treating conditions that involve an existing megakaryocyte/platelet deficiency or an expected megakaryocyte/platelet deficiency, such as thrombocytopaenia, aplastic anaemia, metastatic tumour which result in thrombocytopaenia, systemic lupus erythematosus, and Fanconi's syndrome. ABB72403 to ABB73426 and ABL35695 to ABL35777 represent amino acid and nucleic acid sequences used in the
                                                                                                                                                                                          proteins of interest in a biological sample. Additionally, (I) is useful for treating inflammatory and autoimmune diseases, Lumour growth, cancer, rheumatoid arthritis, diabetic retinoque, obesity, sleep disorders, infertility, and neurological degenerative diseases. (I), comprising EPO-mimetic compounds are useful for treating disorders characterised by low red blood cell levels such as anaemia. The TPO-mimetic comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel vehicle-peptide molecule or its multimers useful for treating inflammatory and autoimmune diseases, cancer, rheumatoid arthritis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Feige U,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (AMGE-) AMGEN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200183525-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sleep disorder; neurological degenerative disease; anacmin
  Sequence
                                                                                                                                                                                                                                                                                                                    prophylactic agent as well as for screening purposes. (I) is useful for diagnosing diseases characterised by dysfunction of their associated protein of interest, for identifying normal or abnormal proteins of interest, as a part of diagnostic kit to detect the presence of their interest, as a part of diagnostic kit to detect the presence of their
                                                                                                                                                                                                                                                                                                                                                                                                             neuroprotective activities. (I) can be used as a therapeutic
                                          exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ptective; inflammatory disease; autoimmune disease rheumatoid arthritis; diabetic retinopathy; ln?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  pharmacologically active peptide St.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Liu C,
    15 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cheetham JC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Boone TC, Gudas JM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      systemic lupus eryt
                                                                                                                                                                                                                                                                                                                                                                                                  (I) is useful for
                                                                                                                                                                                                                                                                                       cancer,
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